

SERVICE MANUAL

COMPACT DISC STEREO
CASSETTE RECORDER

BASIC TAPE MECHANISM : TN21ZVC-1816
BASIC CD MECHANISM : KSM-213CDM

This Service Manual is the "Revision Publishing" and replaces "Simple Manual"
CSD-ED79(EZ<S>)(S/M Code No.09-994-329-8T1).

SPECIFICATIONS

<Tuner section>

(FM)

Tuning range	87.5 MHz to 108.0 MHz
Antenna	Rod antenna

(MW)

Tuning range	522 kHz to 1611 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Antenna	Ferrite bar antenna

(LW)

Tuning range	153 kHz to 288 kHz
Antenna	Ferrite bar antenna

<Cassette deck section>

Track format	4 track, 2 channels stereo
Frequency response	Normal tape: 50 Hz - 12500 Hz
Recording system	AC bias
Erasing system	Magnet erase
Heads	Recording/Playback head x 1 Erasure head x 1

<Compact disc player section>

Disk	Compact disc
Scanning method	Non-contact optical scanner (Semiconductor laser)

<General>

Speakers	100 mm cone type (2) 36 mm cone type (2)
Power output	5.0 W + 5.0 W (DIN MUSIC POWER) 4.5 W + 4.5 W (EIAJ 3.2 ohms, T.H.D. 10 %) 3.3 W + 3.3 W (DIN 1 % Rated Power)
Output	Headphones (stereo minijack)
Power requirements	DC 12 V using eight size C (R14) batteries AC 230 V 50 Hz
Power consumption	27 W
Dimensions of main unit	(W x H x D) 507 x 206 x 299.5 mm
Weight of main unit	4.7 kg

• Design and specifications are subject to change without notice.

ACCESSORIES LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

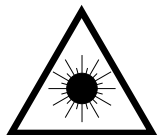
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-CH4-908-010	IB,EZ(9L)B	
△ 2	87-A80-036-010	AC CORD SET ASSY,E W/FLTR VOL	

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylitävälle näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

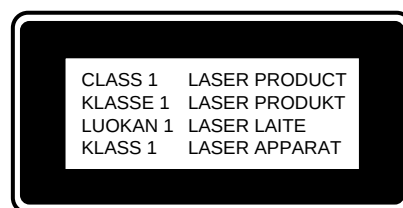
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

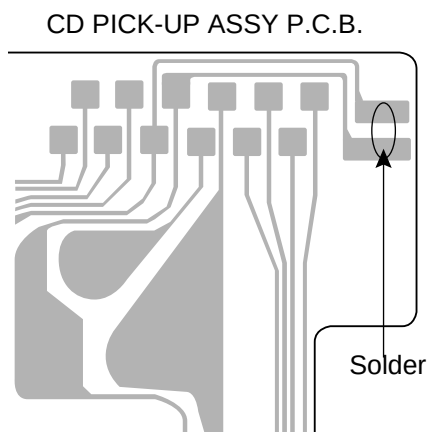


Precaution to replace Optical block

(KSS - 213B)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in the right figure.



ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC				C22	87-010-197-080		CAP, CHIP 0.01 DM
	87-A20-459-010		C-IC, LC78622ED	C24	87-012-157-080		C-CAP 330P-50CH
	8Z-CH4-636-010		IC, LC867132V-5K36	C25	87-016-460-080		C-CAP, S 0.22-16 B
	87-A21-184-010		IC, TA2104AN	C26	87-010-322-080		C-CAP, S 100P-50
	87-A21-185-040		C-IC, LC72121M	C27	87-A11-067-080		C-CAP, S 1-10 K B
	87-A20-946-040		C-IC, MM1434XF				
	87-A20-591-010		IC, BA5417	C28	87-016-669-080		C-CAP, S 0.1-25 K B
	87-A21-111-040		C-IC, M62495FP	C29	87-016-669-080		C-CAP, S 0.1-25 K B
	87-070-416-010		IC, NJU7201 L55	C30	87-010-220-080		C-CAP, S 0.018-25 KB
	87-A20-446-010		C-IC, LA9241ML	C31	87-010-220-080		C-CAP, S 0.018-25 KB
	87-A21-093-010		IC, LA6541D	C33	87-010-401-080		CAP, ELECT 1-50V
	87-A21-145-040		C-IC, BA4560F-E2				
TRANSISTOR				C34	87-010-401-080		CAP, ELECT 1-50V
	87-026-291-010		TR, DTC124XS	C35	87-015-819-080		CAPACITOR, 0.01
	89-213-702-010		TR, 2SB1370E(1.8W)	C36	87-010-112-080		CAP, ELECT 100-16V
	89-319-233-080		TR, 2SC1923 (0.1W)	C37	87-010-197-080		CAP, CHIP 0.01 DM
	87-A30-092-080		FET, 2SK439E/F	C38	87-010-380-080		CAP, ELECT 47-16V
	87-026-447-080		TR, 2SC1740S R				
	89-320-011-080		TR, 2SC2001K(15W)	C39	87-010-404-080		CAP, ELECT 4.7-50V
	87-026-214-080		TR, DTA114YS (0.3W)	C40	87-010-197-080		CAP, CHIP 0.01 DM
	87-026-215-010		TR, DTC114YS	C41	87-012-349-080		C-CAP, S 1000P-50 CH
	89-112-965-010		TR, 2SA1296GR	C42	87-012-349-080		C-CAP, S 1000P-50 CH
	87-026-463-010		TR, 2SA933S, RS	C43	87-012-349-080		C-CAP, S 1000P-50 CH
	87-026-462-010		TR, 2SC1740SRS				
	89-113-184-080		TR, 2SA1318TU	C44	87-010-311-080		C-CAP, S 12P-50 J CH GRM
	89-112-965-080		TR, 2SA1296GR(0.75W)	C45	87-010-312-080		C-CAP, S 15P-50 CH
	87-026-464-010		TR, DTC114TS	C46	87-010-197-080		CAP, CHIP 0.01 DM
	87-026-239-010		TR, DTC114TK	C47	87-010-197-080		CAP, CHIP 0.01 DM
	89-318-154-010		TR, 2SC1815Y	C48	87-010-197-080		CAP, CHIP 0.01 DM
	89-318-155-010		TR, 2SC1815(GR)				
	87-026-496-080		FET, 2SJ103GR	C49	87-012-156-080		C-CAP, S 220P-50 CH
	88-NF9-637-010		TR, 2SA1318T/U	C50	87-010-197-080		CAP, CHIP 0.01 DM
	89-110-150-010		TR, 2SA1015	C51	87-010-316-080		C-CAP, S 33P-50 CH
DIODE				C52	87-010-197-080		CAP, CHIP 0.01 DM
	87-070-345-080		DIODE, IN4148	C53	87-010-197-080		CAP, CHIP 0.01 DM
	87-017-072-080		ZENER, HZS3B1				
	87-027-607-080		ZENER, HZ7B3L	C54	87-014-055-080		CAP, PP 820P-100 J
	87-A40-466-080		ZENER, MTZJ2.7A	C55	87-010-197-080		CAP, CHIP 0.01 DM
	87-020-465-080		DIODE, 1SS133 (110MA)	C71	87-010-197-080		CAP, CHIP 0.01 DM
	87-017-162-080		ZENER, HZS7C3L	C72	87-016-669-080		C-CAP, S 0.1-25 K B
	87-017-148-080		ZENER, HZS6A1L	C73	87-016-669-080		C-CAP, S 0.1-25 K B
	87-017-139-010		ZENER, HZS15-2				
	87-070-136-080		ZENER, MTZJ5.1B	C78	87-016-669-080		C-CAP, S 0.1-25 K B
	87-A40-465-010		DIODE, FR202	C207	87-010-408-080		CAP, ELECT 47-50V
MAIN C.B				C208	87-010-402-080		CAP, ELECT 2.2-50V
C1	87-010-314-080		C-CAP, S 22P-50V	C209	87-010-190-080		S CHIP F 0.01
C2	87-010-316-080		C-CAP, S 33P-50 CH	C210	87-010-190-080		S CHIP F 0.01
C3	87-010-314-080		C-CAP, S 22P-50V				
C5	87-A11-067-080		C-CAP, S 1-10 K B	C211	87-010-401-080		CAP, ELECT 1-50V
C6	87-010-312-080		C-CAP, S 15P CH	C212	87-010-401-080		CAP, ELECT 1-50V
C7	87-014-409-080		CAP, PP 470P-100J	C215	87-010-425-080		C-CAP, 0.22-25 F
C8	87-012-349-080		C-CAP, S 1000P-50 CH	C216	87-010-425-080		C-CAP, 0.22-25 F
C10	87-010-197-080		CAP, CHIP 0.01 DM	C217	87-010-400-080		CAP, ELECT 0.47-50V
C11	87-010-197-080		CAP, CHIP 0.01 DM				
C12	87-010-197-080		CAP, CHIP 0.01 DM	C218	87-010-400-080		CAP, ELECT 0.47-50V
C13	87-010-150-080		C-CAP, S 6P-50 CH	C220	87-010-405-080		CAP, ELECT 10-50V
C14	87-012-157-080		C-CAP 330P-50CH	C222	87-010-190-080		S CHIP F 0.01
C15	87-012-349-080		C-CAP, S 1000P-50 CH	C223	87-010-190-080		S CHIP F 0.01
C16	87-010-380-080		CAP, ELECT 47-16V	C226	87-010-190-080		S CHIP F 0.01
C17	87-010-198-080		CAP, CHIP 0.022				
C18	87-015-819-080		CAPACITOR, 0.01	C228	87-010-401-080		CAP, ELECT 1-50V
C19	87-010-112-080		CAP, ELECT 100-16V	C229	87-010-401-080		CAP, ELECT 1-50V
C20	87-010-404-080		CAP, ELECT 4.7-50V	C231	87-010-213-080		C-CAP, S 0.015-50 B
C21	87-010-197-080		CAP, CHIP 0.01 DM	C232	87-010-213-080		C-CAP, S 0.015-50 B
				C233	87-010-546-080		CAP, ELECT 0.33-50V
				C234	87-010-546-080		CAP, ELECT 0.33-50V
				C235	87-010-544-080		CAP, ELECT 0.1-50V
				C236	87-010-544-080		CAP, ELECT 0.1-50V
				C237	87-010-260-080		CAP, ELECT 47-25V
				C238	87-010-263-080		CAP, ELECT 100-10V
				C241	87-010-405-080		CAP, ELECT 10-50V
				C242	87-010-405-080		CAP, ELECT 10-50V
				C243	87-010-405-080		CAP, ELECT 10-50V
				C244	87-010-405-080		CAP, ELECT 10-50V
				C245	87-010-405-080		CAP, ELECT 10-50V
				C246	87-010-405-080		CAP, ELECT 10-50V
				C247	87-010-404-080		CAP, ELECT 4.7-50V
				C248	87-010-404-080		CAP, ELECT 4.7-50V
				C261	87-010-402-080		CAP, ELECT 2.2-50V
				C262	87-010-402-080		CAP, ELECT 2.2-50V

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C263	87-010-178-080		CHIP CAP 1000P	C853	87-010-190-080		S CHIP F 0.01
C264	87-010-178-080		CHIP CAP 1000P	CF2	82-785-747-080		CF,MS2 GHY,R
C265	87-010-383-080		CAP, ELECT 33-25V	CF3	82-785-747-080		CF,MS2 GHY,R
C266	87-010-383-080		CAP, ELECT 33-25V	CF4	87-A91-094-010		FLTR,CDA10.7 MG
C267	87-010-380-080		CAP, ELECT 47-16V	CN201	87-099-016-010		CONN,14P 6216V
C268	87-010-380-080		CAP, ELECT 47-16V	CN203	87-049-469-010		CONN,4P V
C271	87-010-236-080		CAP, ELECT 1000-10V	CN204	87-049-469-010		CONN,4P V
C272	87-010-236-080		CAP, ELECT 1000-10V	CN205	87-A60-109-010		CONN,2P V S2M-2W
C275	87-010-628-080		CAP,E 3.3-16 M 5L BP SRE	CN301	S1-2S3-002-500		CONN,3P
C276	87-010-628-080		CAP,E 3.3-16 M 5L BP SRE	CN801	87-049-469-010		CONN,4P V
C277	87-010-260-080		CAP, ELECT 47-25V	CN802	87-049-469-010		CONN,4P V
C278	87-010-263-080		CAP, ELECT 100-10V	D3	87-A40-616-070		VARI-CAP,SVC384(S/T)
C279	87-010-112-080		CAP, ELECT 100-16V	D4	87-A40-615-070		VARI-CAP,KV1311NT
C299	87-010-190-080		S CHIP F 0.01	D5	87-A40-615-070		VARI-CAP,KV1311NT
C301	87-010-453-010		CAP, ELECT 4700-25V	L2	87-A50-347-010		COIL,FM BPF EX
C306	87-010-404-080		CAP, ELECT 4.7-50V	L3	87-A91-096-010		BAR-ANT,MW/LW FOR 3B(SYN)
C307	87-010-401-080		CAP, ELECT 1-50V	L4	87-A50-420-010		COIL,MW OSC(SYN)
C308	87-010-221-080		CAP, ELECT 470-10V	L5	87-A50-424-010		COIL,FM RF EX(SYN)
C309	87-010-263-080		CAP, ELECT 100-10V	L6	87-A50-427-010		COIL,FM OSC EX(SYN)
C310	87-010-248-080		CAP, ELECT 220-10V	L7	87-A91-308-010		FLTR,PCFAZH- 450T (TOK)
C311	87-010-384-080		CAP, ELECT 100-25V	L8	87-005-849-080		COIL,10UH(CECS)
C312	87-010-385-080		CAP, ELECT 220-25V	L9	87-005-849-080		COIL,10UH(CECS)
C314	87-010-248-080		CAP, ELECT 220-10V	L51	87-A50-421-010		COIL,LW OSC(SYN)
C315	87-010-197-080		CAP, CHIP 0.01 DM	L801	87-007-342-010		COIL,OSC 85K BIAS
C321	87-010-190-080		S CHIP F 0.01	R840	87-029-124-010		RES,FUSE 2.2-1/4
C322	87-010-263-080		CAP, ELECT 100-10V	TC1	87-011-220-080		TRIMMER CAP 20P VTC
C325	87-010-405-080		CAP, ELECT 10-50V	TC51	87-011-233-080		TRIMER,50P VCT54
C341	87-010-197-080		CAP, CHIP 0.01 DM	X1	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
C342	87-010-221-080		CAP, ELECT 470-10V				
C343	87-010-401-080		CAP, ELECT 1-50V				
C801	87-010-402-080		CAP, ELECT 2.2-50V	FRONT C.B			
C802	87-010-402-080		CAP, ELECT 2.2-50V	C601	87-010-313-080		CAP, CHIP 18P
C803	87-010-181-080		C-CAP,S 1800P-50 KB	C602	87-010-315-080		C-CAP,S 27P-50 CH
C804	87-010-181-080		C-CAP,S 1800P-50 KB	C603	87-010-319-080		C-CAP,S 56P-50 J CH
C805	87-012-158-080		C-CAP,S 390P-50 CH	C604	87-010-312-080		C-CAP,S 15P-50V CH
C806	87-012-158-080		C-CAP,S 390P-50 CH	C605	87-010-317-080		C-CAP,S 39P-50 CH
C809	87-010-379-010		CAP,E 22-10 SM	C607	87-A11-067-080		C-CAP,S 1-10 K B
C810	87-010-379-010		CAP,E 22-10 SM	C608	87-A11-067-080		C-CAP,S 1-10 K B
C811	87-010-404-010		CONDENSER 4.7-50	C610	87-010-263-080		CAP, ELECT 100-10
C812	87-010-404-010		CONDENSER 4.7-50	C611	87-010-196-080		CHIP CAPACITOR,0.1-25
C815	87-010-374-010		CAP, ELECT 47-10V	C612	87-010-248-080		CAP, ELECT 220-10V
C816	87-010-384-080		CAP, ELECT 100-25V	C613	87-010-402-080		CAP, ELECT 2.2-50V
C819	87-010-401-010		CAP, ELECT 1-50V	C614	87-010-196-080		CHIP CAPACITOR,0.1-25
C820	87-010-401-010		CAP, ELECT 1-50V	C615	87-010-400-080		CAP, ELECT 0.47-50V
C821	87-010-183-080		C-CAP,S 2700P-50 KB	C616	87-010-401-080		CAP, ELECT 1-50V
C822	87-010-183-080		C-CAP,S 2700P-50 KB	C620	87-A11-067-080		C-CAP,S 1-10 K B
C823	87-010-213-080		C-CAP,S 0.015-50 B	C627	87-010-401-080		CAP,E 1-50
C824	87-010-213-080		C-CAP,S 0.015-50 B	C628	87-010-401-080		CAP,E 1-50
C825	87-010-405-080		CAP, ELECT 10-50V	C691	87-010-405-080		CAP, ELECT 10-50V
C826	87-010-405-080		CAP, ELECT 10-50V	CN601	87-099-031-010		CONN,14P 6216 H
C827	87-010-404-010		CONDENSER 4.7-50	CN602	87-099-200-010		CONN,7P 6216H
C828	87-010-404-010		CONDENSER 4.7-50	CN603	87-099-199-010		CONN,6P 6216 H
C830	87-010-260-080		CAP, ELECT 47-25V	CN604	87-099-200-010		CONN,7P 6216H
C831	87-010-198-080		CAP, CHIP 0.022	CN605	87-099-200-010		CONN,7P 6216H
C832	87-010-198-080		CAP, CHIP 0.022	FC601	8Z-CH4-619-010		FF-CABLE, 14P AF-FR
C833	87-010-179-080		CAP,CHIP S B1200P	FC602	8Z-CH4-621-010		FF-CABLE, 7P CD-FR
C834	87-010-248-080		CAP, ELECT 220-10V	FC603	8Z-CH4-622-010		FF-CABLE, 6P TU-FR
C835	87-012-358-010		C-CAP,S 0.47-16V	FC604	8Z-CH4-620-010		FF-CABLE, 7P FR-LED
C837	87-010-374-010		CAP, ELECT 47-10V	FC605	8Z-CH4-620-010		FF-CABLE, 7P FR-LED
C838	87-010-405-080		CAP, ELECT 10-50V	L601	87-003-102-010		COIL,10UH TROIDAL
C841	87-010-182-080		C-CAP,S 2200P-50 KB	LCD601	8Z-CH4-635-010		LCD,HLC7365 ZCH-4
C842	87-010-182-080		C-CAP,S 2200P-50 KB	S601	87-A90-696-080		SW,TACT TS2103-03-430
C843	87-010-190-080		S CHIP F 0.01	S604	87-A90-696-080		SW,TACT TS2103-03-430
C844	87-018-128-080		CAP,TC U 560P-50 KB	S605	87-A90-696-080		SW,TACT TS2103-03-430
C845	87-018-128-080		CAP,TC U 560P-50 KB	S606	87-A90-696-080		SW,TACT TS2103-03-430
C846	87-010-194-080		CAP, CHIP 0.047	S607	87-A90-696-080		SW,TACT TS2103-03-430
C849	87-010-177-080		CHIP CAPACITOR 820P	S614	87-A90-696-080		SW,TACT TS2103-03-430
C850	87-010-177-080		CHIP CAPACITOR 820P	S615	87-A90-696-080		SW,TACT TS2103-03-430
C851	87-010-186-080		CAP,CHIP 4700P	X601	87-030-273-010		VIB,XTAL 32.768K5PPM
C852	87-010-178-080		CHIP CAP 1000P	X602	87-A7-070-080		VIB,CER 5.76MHZ CRHF

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
CD MAIN C.B				CN401	87-A60-424-010		CONN,16P V TOC-B
C401	87-010-403-080	CAP,	ELECT 3.3-50V	CN402	8Z-CH4-614-010		CONN ASSY,6P CD-ME
C402	87-010-197-080	CAP,	CHIP 0.01 DM	CN403	87-099-195-010		CONN,7P 6216 V
C403	87-010-263-080	CAP,	ELECT 100-10V	FC401	8Z-CH4-618-010		FF-CABLE, 16P CD-RF
C404	87-010-248-080	CAP,	ELECT 220-10V	L401	87-003-102-080		COIL, 10UH
C405	87-010-197-080	CAP,	CHIP 0.01 DM				
C406	87-010-374-080	CAP,	ELECT 47-10V	L404	87-008-372-010		FILTER, EMI BL OIRNI
C407	87-010-178-080	CHIP	CAP 1000P	SFR430	87-024-176-080		SFR,100K H NVZ6TLTA
C409	87-010-248-080	CAP,	ELECT 220-10V	X401	81-592-641-010		CERAMIC FILTER, 16.93MHZ
C410	87-010-263-080	CAP,	ELECT 100-10V				
C412	87-010-401-080	CAP,	ELECT 1-50V	LED C.B			
C413	87-A11-138-080	CAP,	CHIP 0.033-50	CN608	87-099-200-010		CONN,7P 6216H
C414	87-010-405-080	CAP,	ELECT 10-50V	CN609	87-099-200-010		CONN,7P 6216H
C416	87-010-545-080	CAP,	ELECT 0.22-50V	LED601	88-CD6-630-010		LED,934ID RED
C417	87-012-157-080	C-CAP,S	330P-50 CH	LED602	88-CD6-630-010		LED,934ID RED
C425	87-010-176-080	C-CAP,S	680P-50 SL	LED603	88-CD6-630-010		LED,934ID RED
C429	87-010-186-080	CAP,CHIP	4700P	LED604	88-CD6-630-010		LED,934ID RED
C430	87-012-156-080	C-CAP,S	220P-50 CH	LED606	88-CD6-630-010		LED,934ID RED
C431	87-010-545-080	CAP,	ELECT 0.22-50V	LED607	88-CD6-630-010		LED,934ID RED
C432	87-010-374-080	CAP,	ELECT 47-10V	LED608	88-CD6-630-010		LED,934ID RED
C433	87-010-401-080	CAP,	ELECT 1-50V	LED609	88-CD6-630-010		LED,934ID RED
C434	87-010-184-080	CHIP	CAPACITOR 3300P(K)	LED610	88-CD6-631-010		LED,934GD GRN
C435	87-010-197-080	CAP,	CHIP 0.01 DM	KEY C.B			
C436	87-010-374-080	CAP,	ELECT 47-10V	S608	87-A90-696-080		SW,TACT TS2103-03-430
C437	87-010-404-080	CAP,	ELECT 4.7-50V	S609	87-A90-696-080		SW,TACT TS2103-03-430
C438	87-010-196-080	CHIP	CAPACITOR,0.1-25	S610	87-A90-696-080		SW,TACT TS2103-03-430
C440	87-010-145-080	C-CAP,S	1P-50 CH	S611	87-A90-696-080		SW,TACT TS2103-03-430
C442	87-010-312-080	C-CAP,S	15P-50 CH	S612	87-A90-696-080		SW,TACT TS2103-03-430
C445	87-010-196-080	CHIP	CAPACITOR,0.1-25	S613	87-A90-696-080		SW,TACT TS2103-03-430
C446	87-010-196-080	CHIP	CAPACITOR,0.1-25				
C447	87-010-196-080	CHIP	CAPACITOR,0.1-25				
C448	87-010-315-080	C-CAP,S	27P-50 CH	HP C.B			
C450	87-012-140-080	CAP	470P	J251	87-A60-569-010		JACK,HTJ-035-18
C451	87-012-156-080	C-CAP,S	220P-50 CH				
C455	87-010-263-080	CAP,	ELECT 100-10V				
C457	87-010-312-080	C-CAP,S	15P-50 CH				
C458	87-010-312-080	C-CAP,S	15P-50 CH	PWR C.B			
C459	87-010-263-080	CAP,	ELECT 100-10V	C901	87-A10-577-080		CAP,CER 0.022-50 Z YF
C460	87-010-197-080	CAP,	CHIP 0.01 DM	C902	87-A10-577-080		CAP,CER 0.022-50 Z YF
C461	87-010-196-080	CHIP	CAPACITOR,0.1-25	C903	87-A10-577-080		CAP,CER 0.022-50 Z YF
C462	87-010-248-080	CAP,E	220-10 SME	C904	87-A10-577-080		CAP,CER 0.022-50 Z YF
C465	87-010-404-080	CAP,	ELECT 4.7-50V	△F901	87-035-347-010		FUSE,2.5AL 250V T
C466	87-010-196-080	CHIP	CAPACITOR,0.1-25	△FC901	87-033-213-010		CLAMP,FUSE SMK
C467	87-010-263-080	CAP,	ELECT 100-10V	△FC902	87-033-213-010		CLAMP,FUSE SMK
C469	87-012-154-080	C-CAP,S	150P-50 CH				
C470	87-010-544-080	CAP,	ELECT 0.1-50V				
C475	87-010-197-080	CAP,	CHIP 0.01 DM	MOTOR-1 C.B			
C476	87-010-236-080	CAP,E	1000-10 SME	M2	9X-262-576-910		MOTOR
C477	87-010-197-080	CAP,	CHIP 0.01 DM	PIN3	91-564-722-110		CONNECTOR 6P
C478	87-010-263-080	CAP,	ELECT 100-10V	SW1	91-572-085-120		LEAF SWITCH
C479	87-010-197-080	CAP,	CHIP 0.01 DM				
C480	87-010-221-080	CAP,	ELECT 470-10V				
C481	87-010-405-080	CAP,	ELECT 10-50V				
C482	87-010-405-080	CAP,	ELECT 10-50V				
C483	87-012-156-080	C-CAP,S	220P-50 CH				
C484	87-012-156-080	C-CAP,S	220P-50 CH				
C489	87-010-196-080	CHIP	CAPACITOR,0.1-25				
C490	87-010-196-080	CHIP	CAPACITOR,0.1-25				
C491	87-010-197-080	CAP,	CHIP 0.01 DM				
C492	87-010-221-080	CAP,	ELECT 470-10V				
C493	87-010-197-080	CAP,	CHIP 0.01 DM				
C500	87-010-197-080	CAP,	CHIP 0.01 DM				
C501	87-010-196-080	CHIP	CAPACITOR,0.1-25				
C502	87-010-322-080	C-CAP,S	100P-50 CH				
C503	87-010-322-080	C-CAP,S	100P-50 CH				
C504	87-010-322-080	C-CAP,S	100P-50 CH				
C505	87-010-322-080	C-CAP,S	100P-50 CH				
C506	87-010-322-080	C-CAP,S	100P-50 CH				
C510	87-010-196-080	CHIP	CAPACITOR,0.1-25				

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

Chip Resistor Part Coding



A
抵抗部品コード
Resistor Code

桁表示
Figure
抵抗値
Value of resistor

チップ抵抗
Chip resistor

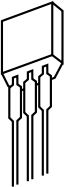
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



E C B

2SA1015
2SA1296
2SA1318
2SC1815
2SC1923
2SC2001
2SC2878



E C B

2SA933S
2SC1740S
DTA114YS
DTC114TK
DTC114TS
DTC114YS
DTC124XS



B C E

2SB1370



S G D

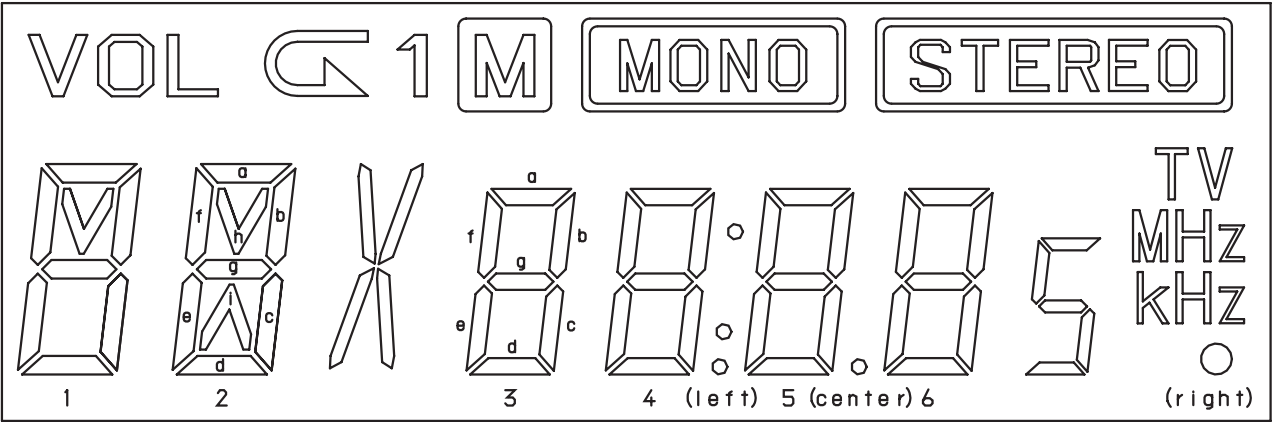
2SJ103



G S D

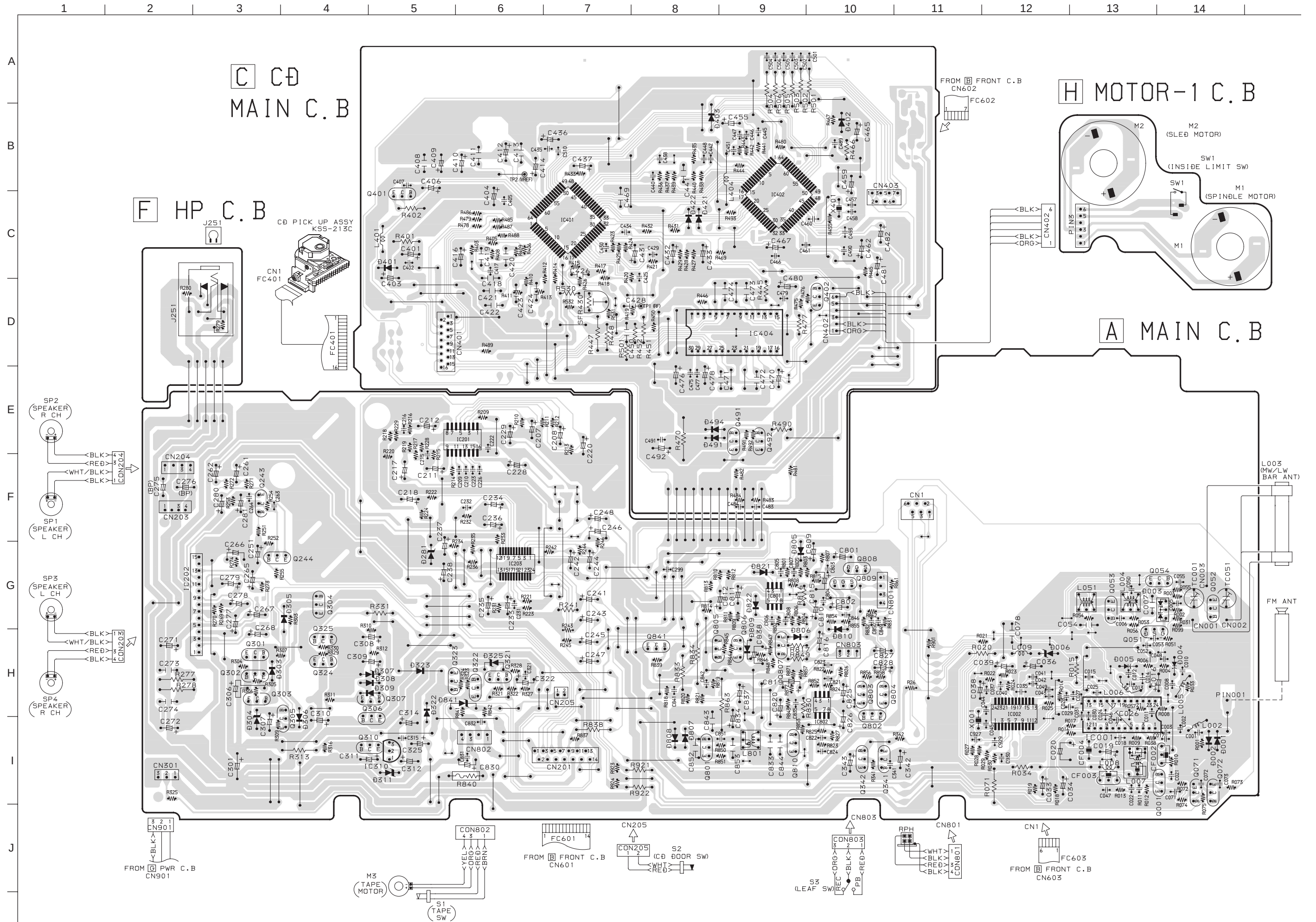
2SK439

LCD DISPLAY

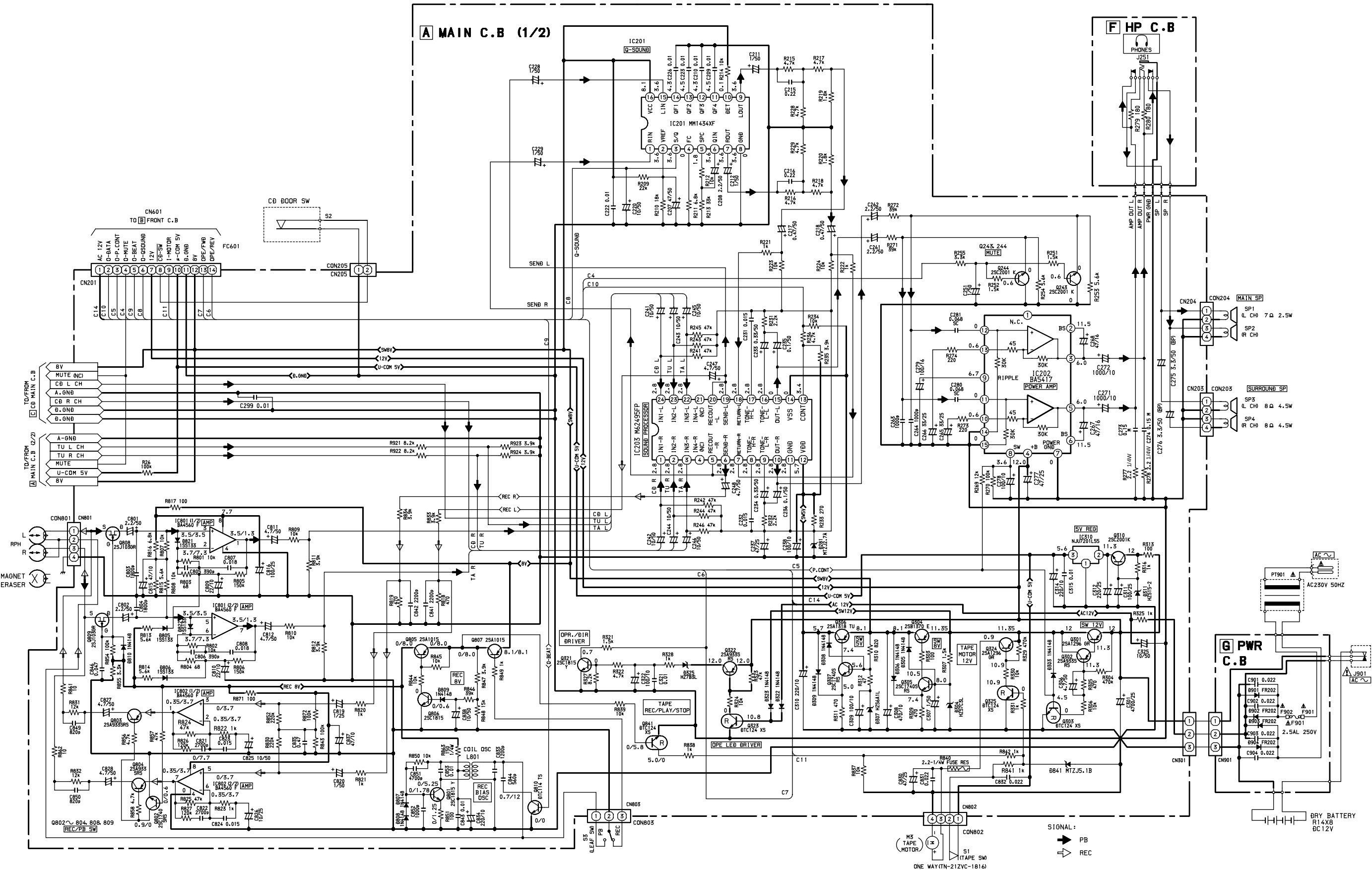


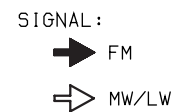
NO.	COM. 1	COM. 2	COM. 3
1	2b	2c	2d
2	1b	1c	1d
3	1a	1f	1e
4	1h	1g	VOL
5	2a	2f	2e
6	2h	2g	2i
7	3f	3e	
8	3a	3g	3d
9	3b	3c	1
10	4f	4e	M
11	4a	4g	4d
12	4b	4c	
13	•	• (left)	MONO
14	5f	5e	• (right)
15	5a	5g	5d
16	5b	5c	• (center)
17	6f	6e	STEREO
18	6a	6g	6d
19	6b	6c	5
20	TV	MHz	kHz
21	COM. 1		
22		COM. 2	
23			COM. 3

WIRING-1

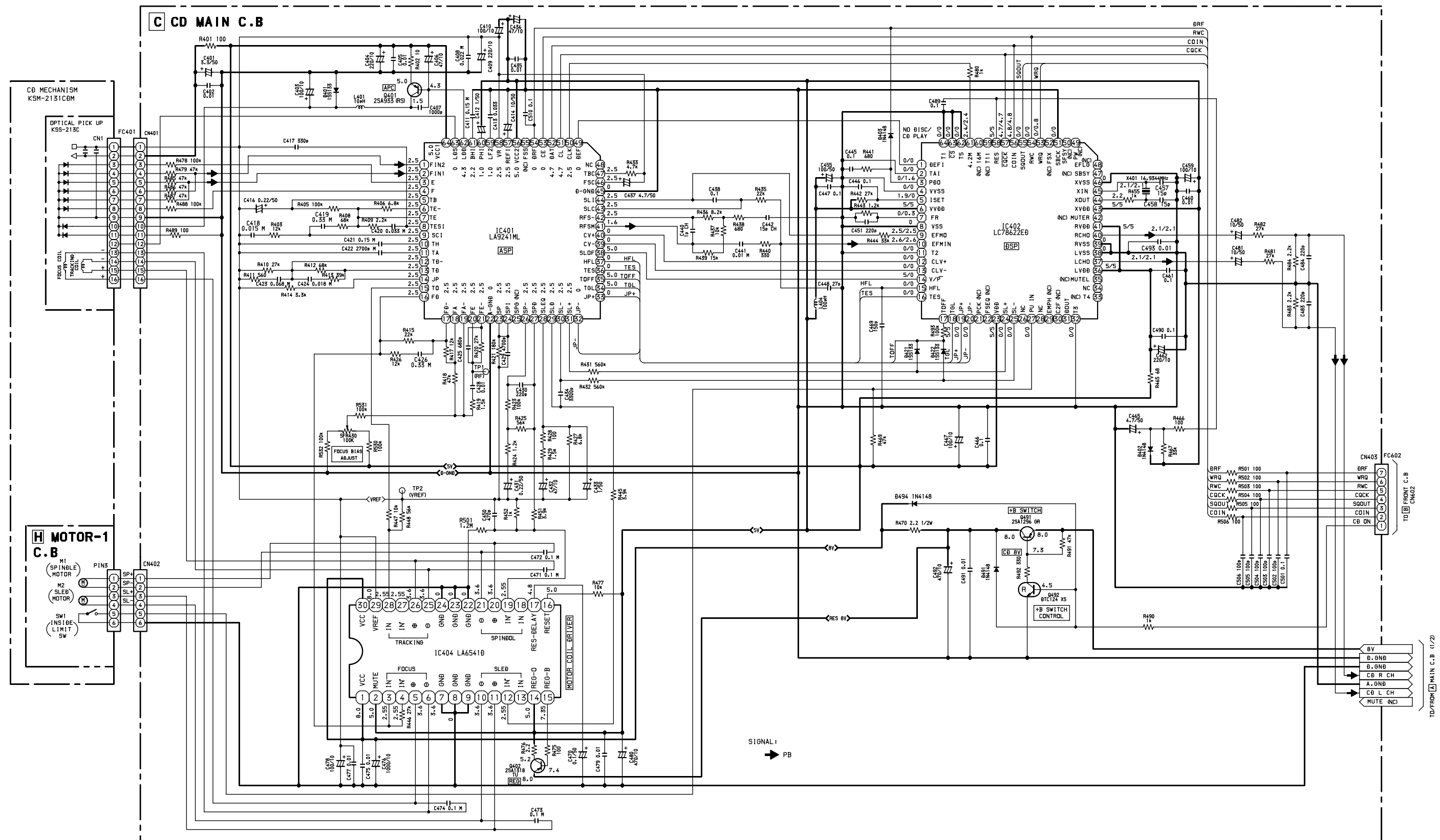


SCHEMATIC DIAGRAM-1 (MAIN-1/2 SECTION)



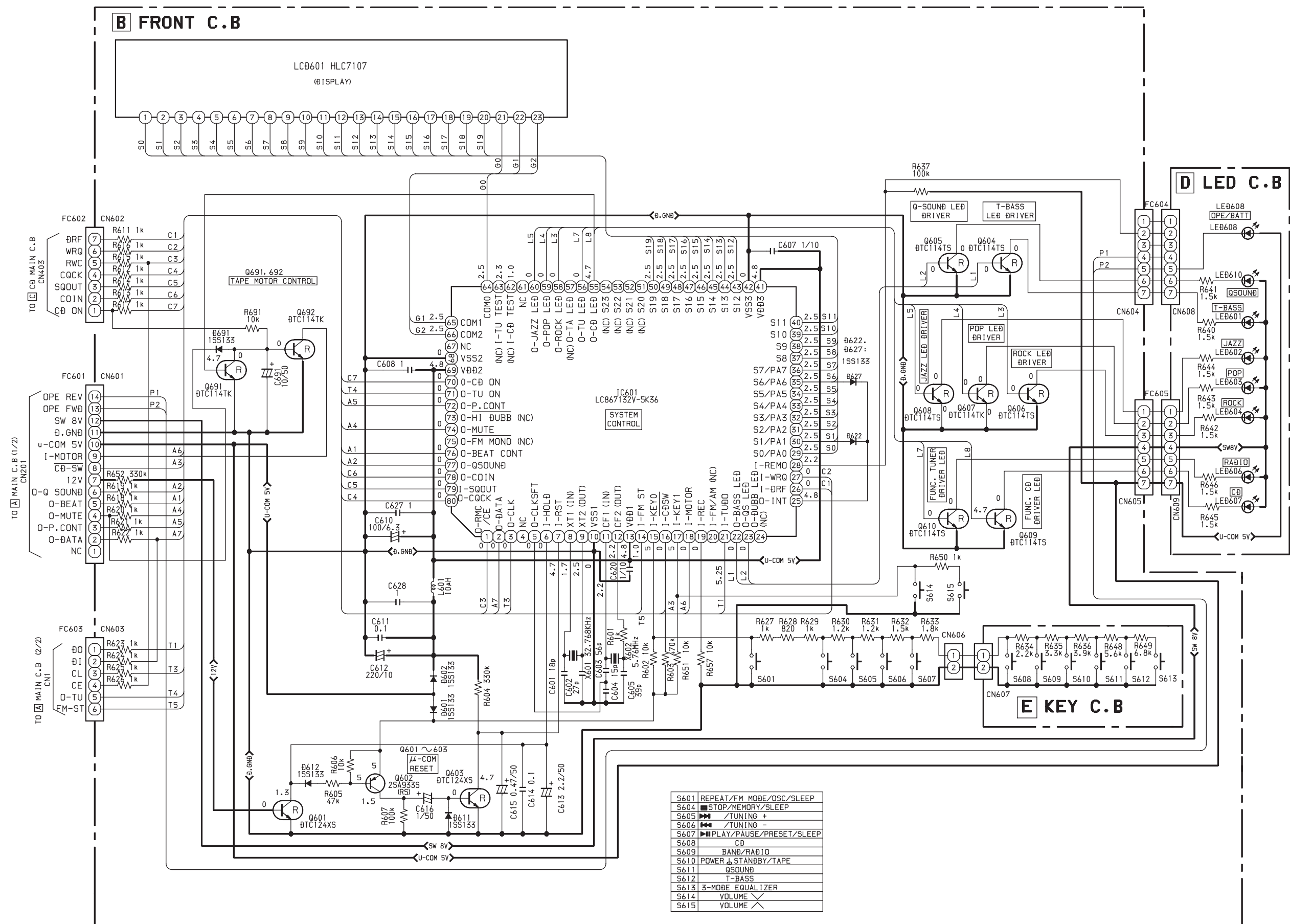


SCHEMATIC DIAGRAM-3 (CD MAIN SECTION)

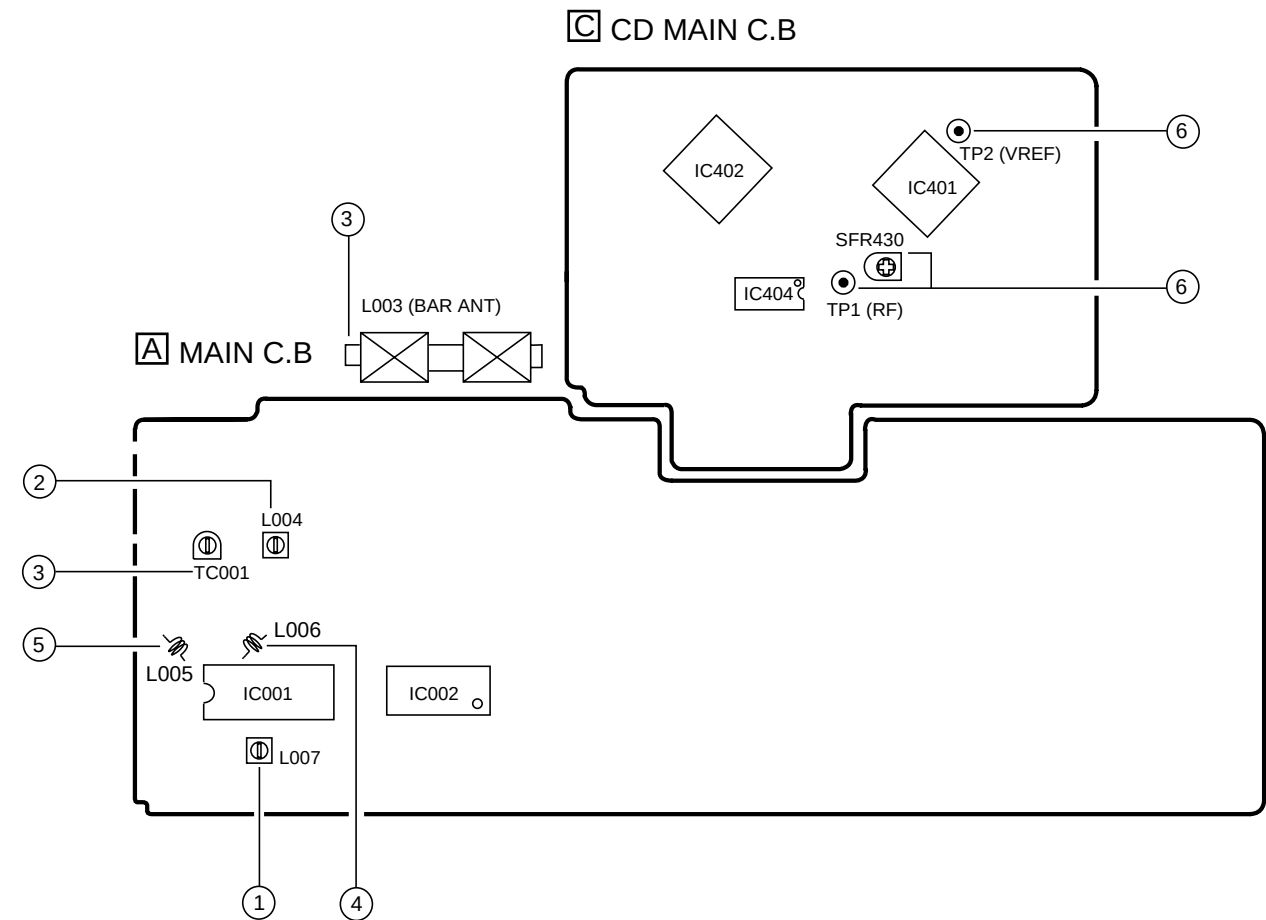




SCHEMATIC DIAGRAM-3 (FRONT, LED, KEY SECTION)



ADJUSTMENT <TUNER / CD>

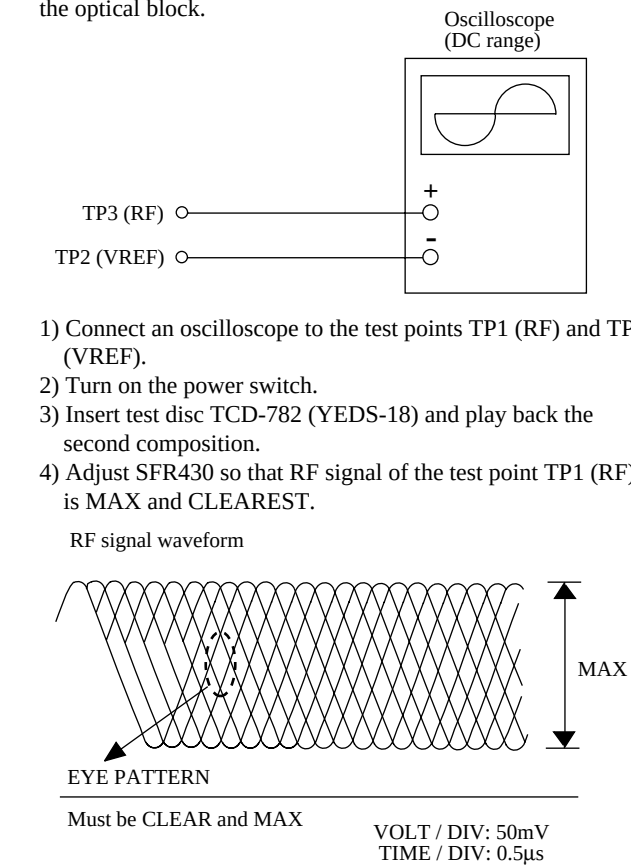


< TUNER SECTION >

- 1. AM (MW) IF Adjustent
L007 450 kHz
- 2. AM (MW) VT Adjustment
Settings : • Test point : TP3
• Adjustment location : L004
Method : Set to AM (MW) 1710kHz (HA, LH), 1602kHz (HR) 1611kHz (EZ) and adjust L004 so that the test point is 6.0 ± 0.05V (HA, LH), 5.6 ± 0.05V (HR, EZ).
- 3. AM (MW) Tracking Adjustment
L003 600kHz (HA, LH), 603kHz (HR, EZ)
TC001 1400kHz (HA, LH), 1404kHz (HR, EZ)
- 4. FM VT Adjustment
Settings : • Test point : TP3
• Adjustment location : L006
Method : Set to FM 108MHz and adjust L006 so that the test point is 6.0 ± 0.05V.
- 5. FM Tracking Adjustment
L005 108MHz
- 6. LW VT Adjustment<EZ>
Settings : • Test point : TP3
• Adjustment location : L051
Method : Set to LW 288kHz and adjust L051 so that the test point is 4.5 ± 0.05V.
- 7. LW Tracking Adjustment<EZ>
L003 153kHz
TC051 288kHz

< CD SECTION >

- 8. Focus Bias Adjustment
Make the focus bias adjustment when replacing and repairing the optical block.



PRACTICAL SERVICE FIGURE

<TUNER SECTION>

- <FM SECTION>
IHF Sensitivity : Less than 18dB
(THD 3%) [at 87.5 / 98 / 108MHz]
Signal to noise ratio : Mono : More than 66dB
Stere : More than 58dB
[at 98MHz]
Distortion : Less than 3% [at 98MHz]
Auto stop level : 24dB ± 10dB
[at 87.5 / 98 / 108MHz]
Stereo separation : More than 20dB [at 98MHz]
Intermediate frequency : 10.7MHz

<AM(MW) SECTION>

- Sensitivity : Less than 48dB
S/N (10dB) [at 600kHz]
Less than 46dB
[at 1000kHz]
Less than 44dB
[at 1400kHz]
Signal to noise ratio : More than 30dB
[at 600 / 1000 / 1400kHz]
Distortion : Less than 3%
[at 1000kHz]
Auto stop level : Less than 70dB
[at 600kHz]
Less than 65dB
[at 1000kHz]
Less than 60dB
[at 1400kHz]
Intermediate frequency : 450kHz

<LW SECTION> (EZ)

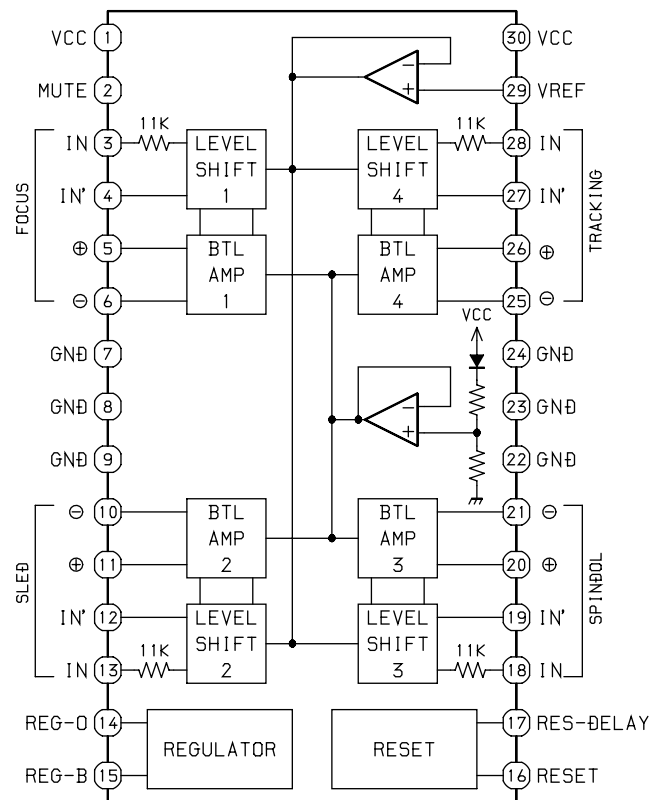
- Sensitivity : Less than 60dB [at 153kHz]
(S/N 10dB) Less than 58dB at [198kHz]
Less than 56dB [at 288kHz]
Signal to noise ratio : More than 30dB
[at 153 / 198 / 288kHz]
Distortion : Less than 3% [at 198MHz]
Auto stop level : Less than 80 / 75 / 70dB
[at 153 / 198 / 288kHz]
Intermediate frequency : 450kHz

<DECK SECTION>

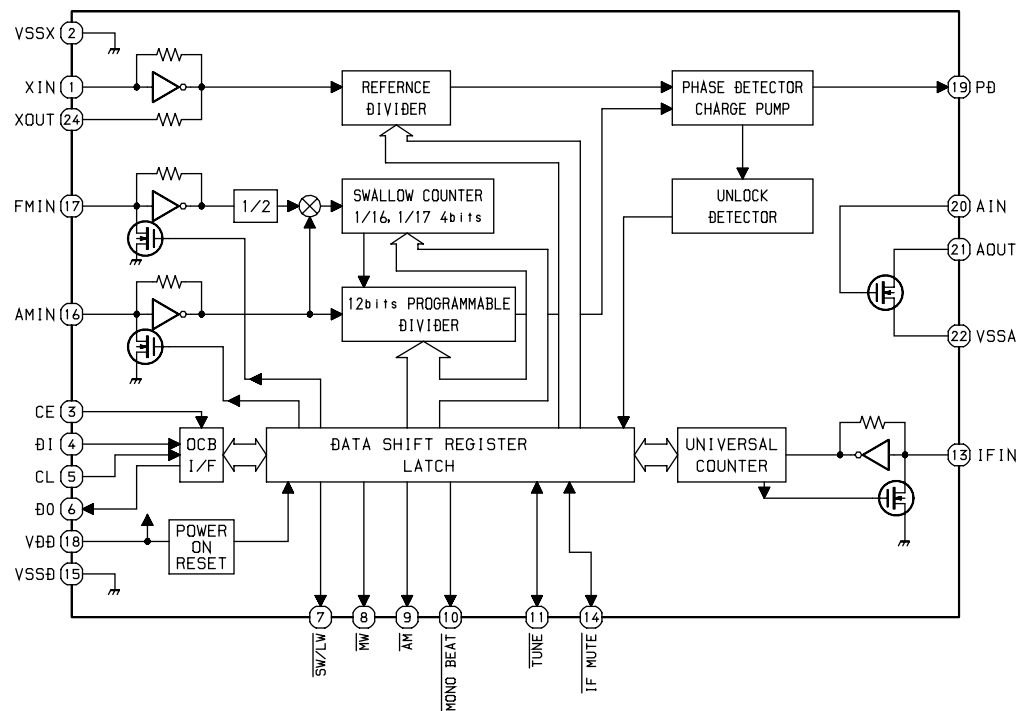
- Tape speed : 3000Hz +90 / -60Hz (TN-21ZVC-1816)
3000Hz ± 90Hz (TN-51RV-240)
- Wow & flutter : Less than 0.4% (R.M.S)
- Take-up torque : 30 ~ 60g-cm (FWD) (TN-21ZVC-1816)
20 ~ 60g-cm (FWD) (TN-51RV-240)
- F.F & REW torque : 55 ~ 140g-cm (TN-21ZVC-1816)
55 ~ 120g-cm (TN-51RV-240)
- Distortion : Less than 3% (PB, 1kHz, DC)
Less than 5% (REC/PB, 1kHz, DC)
- S/N ratio : More than 35dB (PB, AC, DC)
More than 25dB (REC/PB, AC, DC)
- Max Noise level : Less than 45mV (PB, DC, AC, VOL MAX)
- Min Noise level : Less than 1mV (PB, DC, VOL MIN)
Less than 1.2mV (PB, AC, VOL MIN)
- Erasing ratio : More than 45dB
- Test tape : TTA-100
TTA-210
TTA-782
TTA-602 (NORMAL)

IC BLOCK DIAGRAM

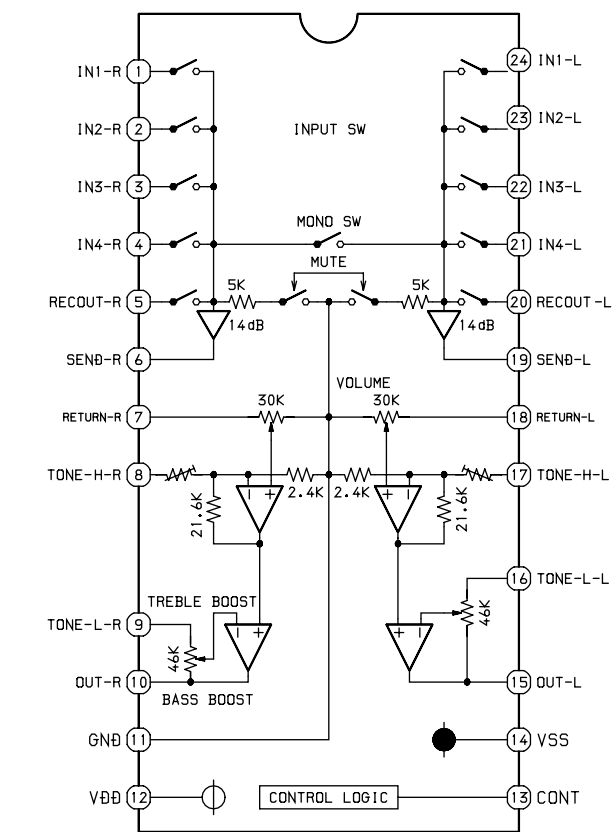
IC, LA6541D



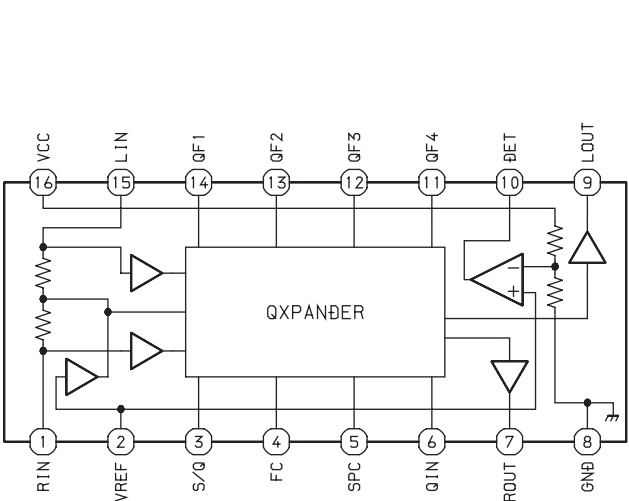
IC, LC72121M



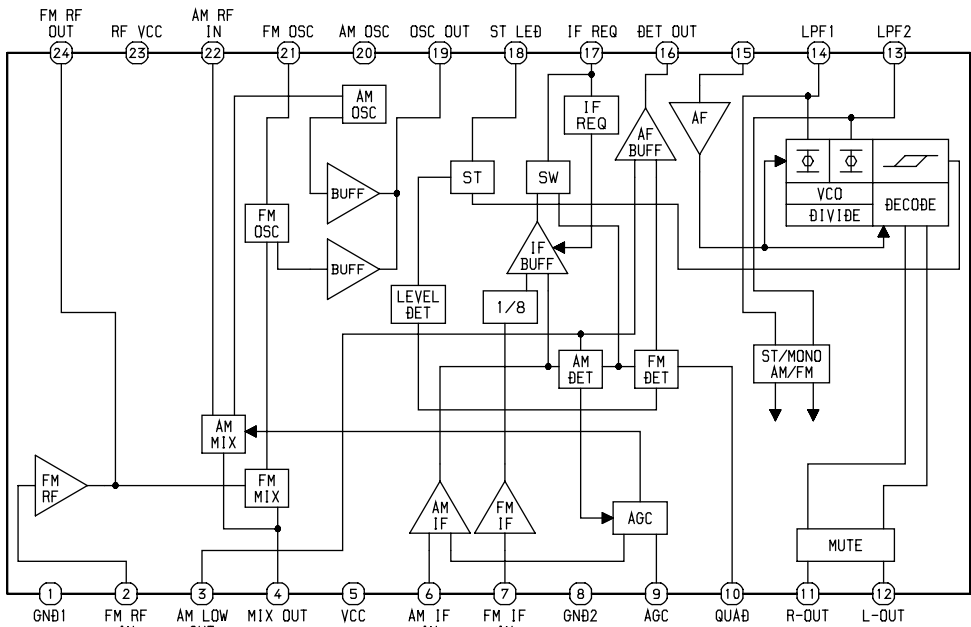
IC, M62495FP



IC, MM1434XF



IC, TA2104AN



IC DESCRIPTION

IC, LC867132V-5K36

Pin No.	Pin Name	I/O	Description
1	O-RMC/CE	O	CD read/write control output and TU CE.
2	O-DATA	O	Data output to LC72121M, M62495FP.
3	O-CLK	O	Output LC72121M CLK.
4	NC	—	Not Connected.
5	O-CK SFT	O	Clock shift output of the microcomputer.
6	I-HOLD	I	Hold status detection.
7	I-RST	I	Microcomputer reset.
8	XT1 (IN)	I	Connected to 32.768KHZ crystal oscillator.
9	XT2 (OUT)	O	
10	VSS1	—	GND.
11	CF1 (IN)	I	Connected to 6MHZ Ceramic Filter.
12	CF2 (OUT)	O	
13	VDD1	—	Power supply for microcomputer (+5V).
14	I-FM ST	I	FM STEREO status input.
15	I-KEYO	I	KEY AD input.
16	I-CD SW	I	CD DOOR SW status detection input.
17	I-KEY1	I	KEY AD input.
18	I-MOTOR	I	DECK MECHA MOTOR status input.
19	I-REC	I	REC status input.
20	I-FM/AM (NC)	I	FM, AM status input. (Not connected)
21	I-TU DO	I	Data input from LC72121M.
22	O-BASS LED	O	BASS LED ON/OFF control output.
23	O-QS LED	O	Q-Sound LED ON/OFF control output.
24	O-DUBB LED (NC)	O	LED control output used for high-speed dubbing. (Not connected)
25	O-INT	O	INT DIODE MATRIX detection output.
26	I-DRF	I	CD RF level detection input.
27	I-WRQ	I	CD sub-code Q standby input.
28	I-REMO	I	Remote control input.
29	SO-PAO	O	LCD segment output and initial settings output. (SW)
30	S1/PA1	O	LCD segment output and initial settings output. (LW)
31	S2/PA2	O	LCD segment output and initial settings output. (MW 10K)
32	S3/PA3	O	LCD segment output and initial settings output. (FM WIDE)
33	S4/PA4	O	LCD segment output and initial settings output. (OIRT)
34	S5/PA5	O	LCD segment output and initial settings output. (SW2)
35	S6/PA6	O	LCD segment output and initial settings output. (ZCH)
36	S7/PA7	O	LCD segment output and initial settings output.
37~40	S8~S11	O	
41	VDD3	—	Power supply for microcomputer (+5V).
42	VSS3	—	GND.
43~50	S12~S19	O	LCD segment output.
51~54	S20~S23 (NC)	O	LCD segment output. (Not Connected)
55	O-CD LED	O	LED ON/OFF control output for CD functions.

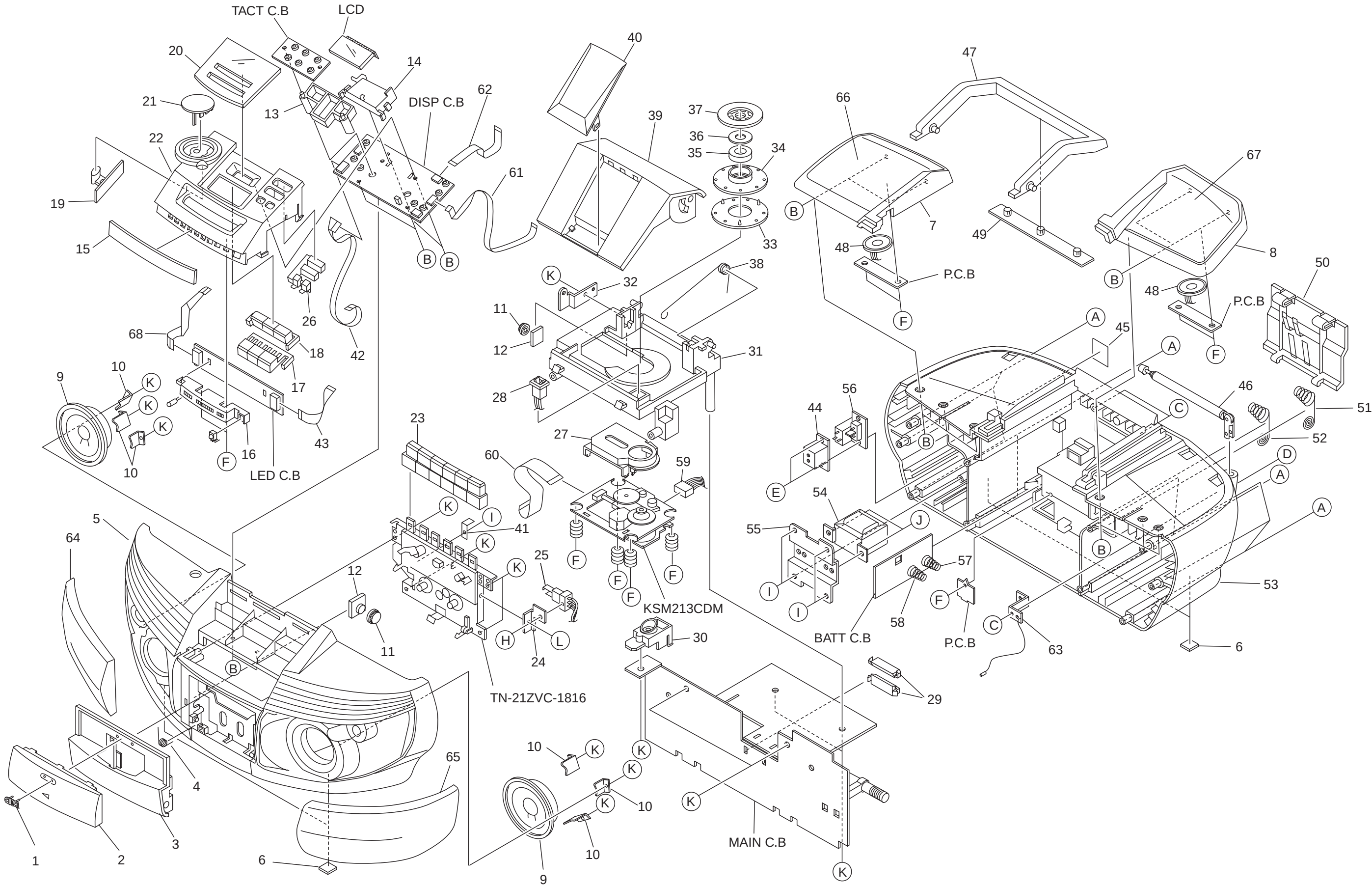
Pin No.	Pin Name	I/O	Description
56	O-TU LED	O	LED ON/OFF control output for TU functions.
57	O-TA LED (NC)	O	LED ON/OFF control output for TAPE functions. (Not Connected)
58	O-ROCK LED	O	LED ON/OFF control output for ROCK.
59	O-POP LED	O	LED ON/OFF control output for POP.
60	O-JAZZ LED	O	LED ON/OFF control output for JAZZ.
61	NC	–	Not connected.
62	I-CD TEST (NC)	I	
63	I-TU TEST (NC)	I	
64~66	COM0~COM2	O	LCD common output.
67	NC	–	Not connected.
68	VSS2	–	GND.
69	VDD2	–	Power supply for microcomputer (+5V).
70	O-CD ON	O	CD PWR control output.
71	O-TU ON	O	TU PWR control output.
72	O-P.CONT	O	Power supply control output.
73	O- $\overline{\text{HI DUBB}}$ (NC)	O	Dubbing speed control output. (Not connected)
74	O-MUTE	O	Main mute output.
75	O- $\overline{\text{FM MONO}}$ (NC)	O	FM force control MONO output. (Not connected)
76	O-BEAT CONT	O	BEAT switch over output.
77	O-QSOUND	O	Q-Sound ON/OFF output.
78	O-COIN	O	CD command output.
79	I-SQOUT	I	CD sub-code Q input.
80	O-CQCK	O	CLK for CD commands/sub-codes.

Pin No.	Pin Name	I/O	Description
1	DEFI	I	Defect detection signal (DEF) input terminal.
2	TAI	I	A pull-down resistor is built in. (Connected to 0V)
3	PDO	O	External VCO control phase comparator output.
4	VVSS	–	Connected to internal VCO of PLL. (Connected to 0V)
5	ISET	I	PDO output current adjustment resistor connection.
6	VVDD	–	Voltage terminal for internal VCO of PLL.
7	FR	I	VCO frequency range adjustment.
8	VSS	–	Digital system ground. (Connected to 0V)
9	EFMO	O	EFM signal output pin.
10	EFMIN	I	EFM signal input pin.
11	T2	I	Test pin. (Connected to 0V)
12	CLV+	O	Disc motor control output.
13	CLV–		
14	V $\bar{P}$	O	Rough servo/phase control automatic switching monitor output. Rough servo at "H". Phase control at "L".
15	HFL	I	Track detection signal input.
16	TES	I	Tracking error signal input.
17	TOFF	O	Tracking off output.
18	TGL	O	Tracking gain switching output.
19	JP+	O	Track jump output.
20	JP–		
21	PCK	O	EFM data playback monitor. Outputs 4.3218MHz when the phase is locked. (Not used)
22	FSEQ	O	Synchronization signal detection output. Outputs a "H" level when the synchronization signal detected from EFM signal and internally generated synchronization signal range.(Not used)
23	VDD	–	Digital system power supply.
24	SL+	O	Serial data command sled signal output terminal from microprocessor.
25	SL–		
26	NC	–	Not used.
27	PU IN	I	CD pickup inside limit switch. (Not used)
28	NC	–	Not used.
29	EMPH	O	De-emphasis monitor pin. A "H" level indicates playback of a de-emphasis disc. (Not used)
30	C2F	O	C2 flag output. (Not used)
31	DOUT	O	Digital output (EIAJ format). (Not used)
32	T3	I	Test input. (Connected to 0V)
33	T4	I	Test input. (Connected to 0V)
34	NC	–	Not used.
35	MUTEL	O	Left channel mute output. (Not used)
36	LVDD	–	Left channel power supply.
37	LCHO	O	Left channel output.

Pin No.	Pin Name	I/O	Description
38	LVSS	–	Left channel ground.
39	RVSS	–	Right channel ground.
40	RCHO	O	Right channel output.
41	RVDD	–	Right channel power supply.
42	MUTER	O	Right channel mute output. (Not used)
43	XVDD	–	Crystal oscillator power supply.
44	XOUT	O	Connections for a 16.9344MHz crystal oscillator element.
45	XIN	I	
46	XVSS	–	Crystal oscillator ground.
47	SBSY	O	Subcode block synchronization signal. (Not used)
48	EFLG	O	C1, C2 single and double error correction monitor pin. (Not used)
49	PW	O	Subcode P,Q,R,S,T,U and W output. (Not used)
50	SFSY	O	Subcode frame synchronization signal output. (Not used)
51	SBCK	I	Subcode readout clock input. (Connected to 0V)
52	FSX	O	Output for the 7.35kHz synchronization signal divided from the crystal oscillator. (Not used)
53	WRQ	O	Subcode Q output standby output.
54	RWC	I	Read/Write control input.
55	SQOUT	O	Subcode Q output.
56	COIN	I	Command input from the control microprocessor.
57	$\overline{\text{CQCK}}$	I	Input for command input acquisition clock and SQOUT pin subcode readout clock.
58	RES	I	Chip reset input.
59	T11	O	Test output. Leave open. (Not used)
60	16M	O	16.9344MHz output. (Not used)
61	4.2M	O	4.2336MHz output.
62	T5	I	Test input. (Connected to 0V)
63	$\overline{\text{CS}}$	I	Chip select input. (Connected to 0V)
64	T1	I	Test input. (Connected to 0V)

Pin No.	Pin Name	I/O	Description
1	FIN2	I	Connected to pickup photo-diode. Adding with FIN1 pin generates RF signal, and subtracting from FIN1 generates FE signal.
2	FIN1	I	Connected to pickup photo-diode.
3	E	I	Connected to pickup photo-diode. Subtracting from F pin generates TE signal.
4	F	I	Connected to pickup photo-diode.
5	TB	I	Input DC components of TE signal.
6	TE–	O	Connected to TE pin with resistor set TE signal gain.
7	TE	O	Output TE signal.
8	TESI	I	Input TES (TRACK ERROR SENSE) comparator. Band pass and input TE signal.
9	SCI	I	Input shock detection.
10	TH	I	Establish tracking gain value.
11	TA	O	TA amplifier output.
12	TD–	I	Compose tracking phase compensation value between TD and VR pins.
13	TD	O	Used for tracking phase compensation setting.
14	JP	I	Establish amplitude of tracking jump signal (kick pulse).
15	TO	O	Output tracking control signal.
16	FD	O	Output focusing control signal.
17	FD–	I	Compose focusing phase compensation value between FD and FA pins.
18	FA	O	Compose focusing phase compensation value between FD– and FA– pins.
19	FA–	I	Compose focusing phase compensation value between FA and FE pins.
20	FE	O	Output FE signal.
21	FE–	I	Connected to FE pin with resistor set FE signal gain.
22	AGND	–	Analog GND.
23	SP	O	Output single-end for CV+ and CV– pins input signal.
24	SPI	I	Spindle amplifier input.
25	SPG	I	Connect resistor for gain setting at spindle 12cm mode. (Not used)
26	SP–	I	Connect spindle phase compensation value with SPD pin.
27	SPD	O	Output spindle control signal.
28	SLEQ	I	Connect sled phase compensation value.
29	SLD	O	Output sled control signal.
30	SL–	I	Input sled sending signal from DSP.
31	SL+		
32	JP–	I	Input tracking jump signal from DSP.
33	JP+		
34	TGL	I	Input tracking gain control signal from DSP. TGL = "H" : Gain low.
35	TOFF	I	Input tracking off control signal from DSP. TOFF = "H" : Off.
36	TES	O	Output TES signal to DSP.
37	HFL	O	HIGH FREQUENCY LEVEL: Detects whether main-beam is on pit or mirror position.
38	SLOF	I	Input sled servo off control.
39	CV–	I	Input CLV error signal from DSP.
40	CV+		

Pin No.	Pin Name	I/O	Description
41	RFSM	O	Output RF.
42	RFS–	O	Establish RF gain and 3T compensation value from EFM signal with RFSM pin.
43	SLC	O	SLICE LEVEL CONTROL: Control data slice level by DSP with RF waveform.
44	SLI	I	Control data slice level by DSP.
45	DGND	–	Digital GND.
46	FSC	O	Connected to focus search smoothing capacitor.
47	TBC	I	TRACKING BALANCE CONTROL: Establish EF balance variable range.
48	NC	–	Not used.
49	DEF	O	Output disc defect detection.
50	CLK	I	Input reference clock. Inputs 4.23MHz from DSP.
51	CL	I	Input microcomputer command clock.
52	DAT	I	Input microcomputer command data.
53	CE	I	Input microcomputer command chip enable.
54	DRF	O	Detect RF: Output RF level detection.
55	FSS	I	FOCUS SEARCH SELECT: Switches focus search mode (between ± search and + search against reference voltage). (Not used)
56	VCC2	–	Servo/digital VCC.
57	REF1	–	Connected to reference voltage bypass condenser.
58	VR	O	Output reference voltage.
59	LF2	–	Establish value in detecting disc defect.
60	PHI	–	Connected to capacitor used to hold peak of RF signal.
61	BHI	–	Connected to capacitor used to hold bottom of RF signal.
62	LDD	O	APC-circuit output pin.
63	LDS	I	APC-circuit input pin.
64	VCC1	–	RF VCC.



MECHANICAL PARTS LIST 1/1

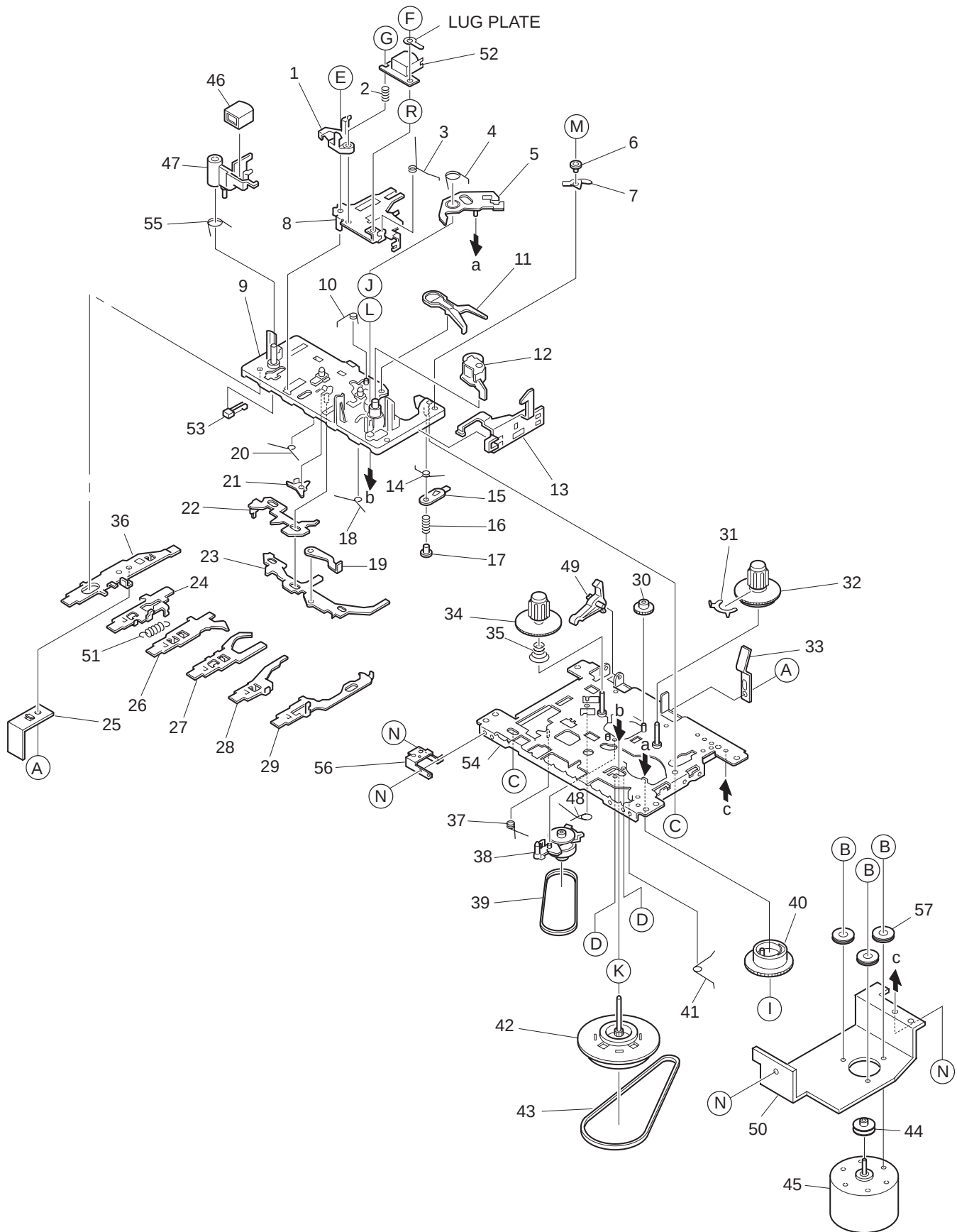
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REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	87-B00-020-010		BADGE, AIWA 30 GOLD	45	87-CD6-041-010		PLATE, AC
2	8Z-CH4-007-010		WINDOW, CASS	46	8Z-CH4-640-010		ANT, ROD
3	8Z-CH4-006-010		BOX, CASS	47	8Z-CH4-009-010		HANDL, ARM
4	8Z-CH4-205-010		SPR-T, CASS	48	8Z-CH4-645-010		SPKR, MAYLOR 80HM SILVER
5	8Z-CH4-061-010		CABI, FR A	49	8Z-CH4-010-010		HANDL, GRIP
6	86-CT4-218-010		CUSHION, FOOT/PORON	50	8Z-CH4-008-010		LID, BATT
7	8Z-CH4-019-010		CABI, TOP 2L	51	87-CD6-223-010		SPR-C, BATT LINK L
8	8Z-CH4-020-010		CABI, TOP 2R	52	87-CD6-214-010		SPR-C, BATT LINK
9	88-CD5-603-010		SPKR, 10 70HM	53	8Z-CH4-002-010		CABI, REAR
10	8Z-CH4-204-010		HLDR, SPEAKER	△ 54	88-CH6-627-010		PT, E
11	84-CD5-215-010		GEAR	△ 55	8Z-CH4-209-010		HLDR, PT
12	84-CD5-216-010		BRACKET	△ 56	87-A60-178-010		JACK, AC E W/SW
13	8Z-CH4-216-010		HLDR, FUNC-PWB	57	87-CD6-222-010		SPR-C, BATT (-) L
14	8Z-CH4-201-010		HLDR, LCD	58	87-CD6-213-010		SPR-C, BATT (-)
15	8Z-CH4-016-010		WINDOW, LED	59	8Z-CH4-614-010		CONN ASSY, 6P CD-ME
16	8Z-CH4-210-010		HLDR, LED	60	8Z-CH4-618-010		FF-CABLE, 16P CD-RF
17	8Z-CH4-027-010		BTN, EQ	61	8Z-CH4-621-010		FF-CABLE, 7P CD-FR
18	8Z-CH4-026-010		BTN, FUNC	62	8Z-CH4-619-010		FF-CABLE, 14P AF-FR
19	8Z-CH4-025-010		BTN, REPEAT	63	88-CH6-207-010		HLDR, ANT
20	8Z-CH4-064-010		WINDOW, LCD EZ	64	8Z-CH4-011-010		GRILLE, FR L
21	8Z-CH4-023-010		BTN, VOL	65	8Z-CH4-012-010		GRILLE, FR R
22	8Z-CH4-013-010		PANEL, LCD21	66	8Z-CH4-021-010		GRILLE, TOP L
23	8Z-CH4-028-010		KEY, CASS 21	67	8Z-CH4-022-010		GRILLE, TOP R
24	8Z-CH4-214-010		HLDR, REC-SW 21	68	8Z-CH4-626-010		FF-CABLE, 7P FR-LED1
25	87-A91-151-010		SW, LEAF 1P2T/TC48-021	A	87-B10-242-010		UT2+3-30 W/O CR
26	8Z-CH4-024-010		BTN, CD	B	87-B10-239-010		QT2+3-8 W/O CR
27	88-CH6-019-010		PANEL, CD	C	87-644-096-410		UT1+3-10 CR
28	87-036-389-010		SW, PUSH LOCK	D	87-254-097-410		U+3-12 CR
29	8Z-CH4-208-010		HLDR, PWB	E	87-751-075-410		VT2+2.6-10
30	8Z-CH4-030-010		COVER, PH	F	87-342-074-010		UT2+2.6-8
31	8Z-CH4-003-010		CHAS, CD	G	87-751-094-410		VT2+3-6 W10SL0T
32	8Z-CH4-207-010		HLDR, OIL-DMPR	H	87-261-037-410		V+2-10 GLD
33	8Z-CH4-212-010		RING, CHUCK	I	87-661-100-410		VFT1+3-16
34	8Z-CH4-211-010		BASE, CHUCK	J	87-067-566-010		TAPPING SCREW, VFTT+3-6
35	87-036-368-010		MAGNET	K	87-741-095-410		UT2+3-8 GLD
36	84-CD5-217-010		PLATE, MAGNET	L	87-571-032-410		VIT+2-3
37	85-CD7-217-010		HLDR, CHUCK A				
38	8Z-CH4-206-010		SPR-T, CD				
39	8Z-CH4-004-010		BOX, CD				
40	8Z-CH4-005-010		WINDOW, CD				
41	8Z-CH4-213-010		SPR-P, REC-SW 21				
42	8Z-CH4-622-010		FF-CABLE, 6P TU-FR				
43	8Z-CH4-627-010		FF-CABLE, 7P FR-LED2				
44	87-A90-086-010		COVER, AC-SOCKET				

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

TAPE MECHANISM EXPLODED VIEW 1/1

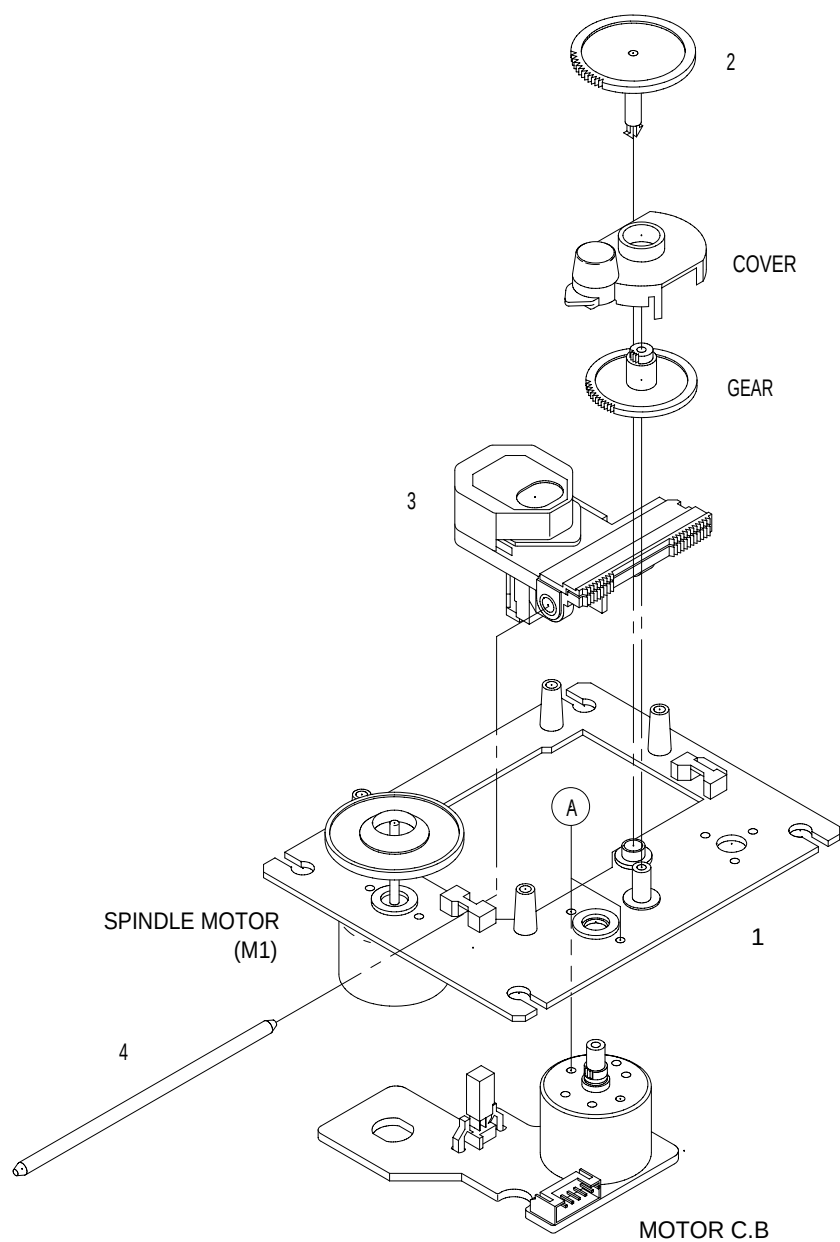


TAPE MECHANISM PARTS LIST 1/1

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REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	S1-921-030-4A0		HEAD BASE	41	S1-921-140-160		E ACTUATOR SPRING
2	S1-821-030-070		AZIMUTH SPRING	42	S1-921-093-030		FLYWHEEL ASSY
3	S1-921-030-090		PANEL P SPRING	43	S1-921-090-040		MAIN BBELT
4	S1-921-260-050		GEAR PLATE SPRING	44	S1-921-120-010		MOTOR PULLEY
5	S1-921-265-020		GEAR PLATE ASSY	45	S6-002-030-220		MOTOR EG530AD-2B
6	S1-921-140-370		P ARM COLLER	46	S6-209-100-100		E HEAD PH-K380-MS1
7	S1-921-140-340		P ARM	47	S1-921-030-050		MG ARM
8	S1-921-030-110		HEAD PANEL	48	S1-921-140-210		REC BUTTON LEVER SPRING
9	S1-921-143-160		BASE ASSY	49	S1-821-100-690		RECORD SAFETY LEVER
10	S1-921-141-8A0		M CONTROL SPRING	50	S1-921-120-540		MOTOR BRACKET
11	S1-921-260-4A0		SENSING LEVER	51	S1-821-010-500		PLAY BUTTON LEVER SPRING
12	S1-921-043-100		PINCH ROLLER ARM ASSY	52	S6-202-010-920		R.P HEAD MS15R-AK0N1
13	S1-921-130-010		EJECT SLIDE LEVER	53	S6-401-011-490		LEAF SW MSW-1541T
14	S1-921-141-3A0		P CONTROL SPRING	54	S1-921-015-010		CHASSIS ASSY
15	S1-921-140-550		PAUSE LEVER(E)	55	S1-921-030-100		MG ARM SPRING
16	S1-921-140-120		PAUSE LEVER SPRING	56	S1-921-010-160		SIDE BRACKET
17	S1-921-140-110		PAUSE STOPPER	57	S1-821-120-660		MOTOR RUBBER
18	S1-921-140-150		BUTTON LEVER SPRING(B)	A	S9-P04-200-310		C TAPPING SCREW 2-3
19	S1-821-011-590		E KICK LEVER	B	S1-851-140-180		MOTOR COLLER SCREW
20	S1-921-140-140		BUTTON LEVER SPRING(A)	C	S9-B10-200-510		P TAPPING BIND SCREW M2-5
21	S1-921-140-200		PR STOPPER	D	S9-C07-204-510		SCREW,TAPPING(CAMERA)M2-4.5
22	S1-921-140-090		SWITCH ACTUATOR	E	S9-P01-200-610		SCREW,M2-6
23	S1-921-140-080		PUSH BUTTON ACTUATOR	F	S9-P01-200-310		SCREW,M2-3
24	S1-921-140-190		PLAY BUTTON LEVER	G	S9-F08-200-710		AZIMUTH SCREW M2-7
25	S1-510-020-020		REC SPRING PLATE	H	S9-P05-200-810		S TAPPING SCREW M2-8
26	S1-921-140-040		REW BUTTON LEVER	I	S9-W02-300-100		P WASHER CUT 1.2-3.8-0.3
27	S1-921-140-050		FF,BUTTON REVER	J	S9-W02-500-100		P WASHER CUT 1.45-3.8-0.5
28	S1-921-140-060		STOP BUTTON LEVER	K	S9-W01-400-100		P WASHER 2-3.5-0.4
29	S1-921-140-600		PAUSE BUTTON LEVER	L	S9-W01-130-200		P WASHER 2.1-4-0.13
30	S1-821-100-700		FF GEAR	M	S9-P08-203-010		PS TAPPING SCREW M2-3
31	S1-921-050-060		SENSOR	N	S9-P04-200-410		C TAPPING SCREW M2-4
32	S1-921-053-030		TAKE UP REEL ASSY				
33	S1-821-100-980		PACK SPRING				
34	S1-921-053-040		SUPPLY REEL ASSY				
35	S1-821-100-990		BACK TENSION SPRING				
36	S1-921-140-030		REC BUTTON LEVER				
37	S1-921-140-170		P.S.LEVER SPRING				
38	S1-921-073-040		RF CLUTCH ASSY				
39	S1-921-070-030		RF BELT				
40	S1-921-260-020		CAM GEAR				

CD MECHANISM EXPLODED VIEW



CD MECHANISM PARTS LIST 1/1

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REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	9X-262-620-210		MOTOR CHASSIS ASSY
2	92-626-907-010		GEAR(A)
3	87-A90-468-010		PICK UP KSS-213C
4	92-626-908-010		SHAFT SLED
A	97-621-255-150		SCREW+P2-3



サービス技術ニュース	
番号	連絡内容
Gーー	
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